

App. No. 07/334,133

Amdt. Dated October 31, 2005

Reply to Office action of July 27, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

Claim 1 (currently amended). A method for remote access control, which comprises:

providing a configuration ~~having~~ including a transceiver unit having an interrogation signal transmitter for generating and transmitting an interrogation signal and a receiver for receiving access code signals simultaneously, an evaluation unit, connected to the transceiver unit, for parallel evaluating received access code signals and for outputting an access enable or inhibit signal in dependence on an evaluation result, and a number of access code transmitters for simultaneously receiving the interrogation signal and for transmitting a respective specific access code signal in reaction to receiving the interrogation signal, the transmitters being a portable code transmitter with a transponder or a sending and receiving unit;

outputting with the transceiver unit the interrogation signal configured to activate all the access code transmitters within a reception area at the same time;

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transmitting with all of the access code transmitters
receiving the interrogation signal a respectively specific
access code signal superimposed with a specific spread
spectrum sequence, substantially simultaneously; and

receiving the access code signals with the transceiver unit
substantially simultaneously, and parallel processing and
separating the access code signals on a basis of specific
spread spectrum sequences applied to the signals for speeding
up the process and guaranteeing a higher security against
interception.

Claim 2 (original). The method according to claim 1, which
comprises providing the configuration for radio access control
to a motor vehicle, and utilizing the separated access code
signals for enabling access to an interior of the motor
vehicle or for activating an operating function of the motor
vehicle.

Claim 3 (original). The method according to claim 1, which
comprises subjecting the access code signals to different
spread sequences of spread spectrum processing in the access
code transmitters and disspreading the access code signals in
the transceiver unit using a respective corresponding inverse
spread sequence.

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Claim 4 (original). The method according to claim 1, which comprises spread spectrum processing in the access code transmitters with a DSSS method, and carrying out digital signal processing in the transceiver unit for spreading in baseband.

Claim 5 (original). The method according to claim 4, which comprises using mutually orthogonal spread sequences as the characteristic in the DSSS method.

Claim 6 (original). The method according to claim 3, which comprises applying chirp sequence processing for spread spectrum processing in the access code transmitters, and applying corresponding delay-time-dependent filtering in an RF section in the transceiver unit.

Claim 7 (original). The method according to claim 3, which comprises applying frequency-hopping processing for spread spectrum processing in the access code transmitters, and applying corresponding frequency-hopping despreading in the transceiver unit.

Claim 8 (currently amended). A remote access control configuration, comprising:

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a transceiver unit having:

an interrogation signal transmitter for generating and transmitting an interrogation signal configured to activate all the access code transmitters within a reception area at the same time[[,]]i and

a receiver for receiving access code signals simultaneously, said receiver having at least one section with a device for parallel processing and separating of a plurality of simultaneously received access code signals in accordance with specific spread spectrum sequences superimposed on the access code signals for speeding up the process and guaranteeing a higher security against interception;

a plurality of access code transmitters each having:

a receiving and activation unit for receiving the interrogation signal and for controlling an output of the respective access code signal[[,]]i

a memory for storing specific spread spectrum sequences to be superimposed on the access code[[,]]i and

a transmission stage including a processing unit for superimposing the specific spread spectrum sequences to the access code[[,]];

said plurality of access code transmitters each being a portable code transmitter with a transponder or a sending and receiving unit, and said plurality of access code transmitters transmitting the superimposed access code signals substantially simultaneously.

Claim 9 (original). The configuration according to claim 8, wherein said transceiver unit is disposed in a motor vehicle and configured to control an access to the vehicle or to selectively activate an operating function of the motor vehicle, and said access code transmitters are portable units enabling access to the motor vehicle.

Claim 10 (original). The configuration according to claim 8 configured for carrying out the method according to claim 1.

Claim 11 (original). The configuration according to claim 8, wherein said interrogation signal transmitter in said transceiver unit, and said receiving and activation units in said access code transmitters are configured for inductive signal transmission.

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Claim 12 (original). The configuration according to claim 8, wherein said interrogation signal transmitter in said transceiver unit, and said receiving and activation units in said access code transmitters are configured for inductive signal transmission at a carrier frequency of 125 kHz.

Claim 13 (original). The configuration according to claim 8, wherein said receiver in said transceiver unit, and said transmission stages in said access code transmitters are configured for carrying out UHF radio transmission.

Claims 14-15 (cancelled).

Claim 16 (original). The configuration according to claim 8, wherein said receiver in said transceiver unit has sections for parallel processing of different access code signals in baseband.

Claim 17 (original). The configuration according to claim 16, wherein said receiver in said transceiver unit has a device for direct sequence spreading of an appropriately spread access code signal.

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Claim 18 (original). The configuration according to claim 8, wherein said receiver in said transceiver unit has sections for parallel processing of different access code signals in the RF stage.

Claim 19 (original).. The configuration according to claim 8, wherein said receiver in said transceiver unit includes time-variant filter components for despreading chirp-spread access code signals.